

# Weekly Report

Pingping Shang

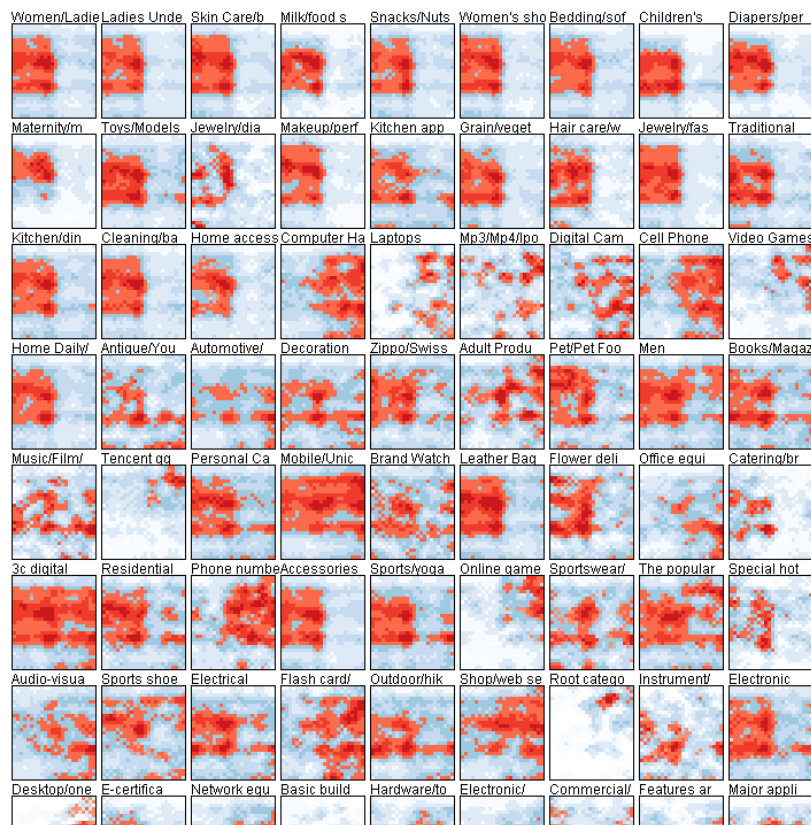
2013.9.16~2013.9.22

## Work in this week

### 1. Mosaic Project

- 1) Adjust the effect of Taobao data trying to find the same patterns as Xinxin's.

I apply KDE to the initial distribution. The setting of the figure below: Gender and Constellation(horizontal), Age(vertical). The shape is a little stiffness.



### 2. Read papers

#### A. "Small Multiples, Large Singles: A New Approach for Visual Data Exploration"

The paper focus on non-expert users, who want to explore data incidentally. They divide the variable into multiples. Continuous data is divided into multiples according subsection; Categorical data is divided into multiples according to

category value; visualization methods are also divided into different multiples. Cluster methods and the cluster number are also can be different multiples. I think the main idea is to provide visualization from varieties of angles.

**B. “Selecting Coherent and Relevant Plots in Large Scatterplot Matrices”**

Scatterplot: measure relevance→reordering→Abstraction.

Visualize the abstract edition of initial visualization and users could select abstract plots to explore.

**C. “A Model for Structure-based Comparison of Many Categories in Small-Multiple Displays”**

The paper applies the same layout as us. The difference is that it tried to systematize the compare method and we are try more kinds of analyzing methods to explore interesting patterns.

**Plan for next week**

Go on to refine the idea that selects a random area to find the similar group.